

**AGRICULTURAL
DEVELOPMENT
COUNCIL, INC.**

Report For 1976



AGRICULTURAL DEVELOPMENT COUNCIL, INC.

1290 Ave. of the Americas, New York, N.Y. 10019

The Council on Economic and Cultural Affairs, Inc., was founded in 1953 by John D. Rockefeller 3rd. It was incorporated as a private nonprofit organization under the laws of the State of New York.

In 1963 the name was changed to the Agricultural Development Council, Inc., but the purposes remain unchanged from those stated in its original Certificate of Incorporation. In broad terms these are "charitable, scientific and educational and are designed to stimulate and support economic and related activities important to human welfare."

The Council from its beginning has committed a major part of its resources and its staff to training and research activities in social science fields. These activities follow both formal and informal patterns. The single aim is to strengthen professional capacity to deal with the economic and human problems of agricultural and rural development in Asia.

It draws its basic financial support from Mr. Rockefeller and the Rockefeller Brothers Fund. In addition, specific projects of the Council are currently supported by the Ford Foundation, the Agency for International Development, and the International Development Research Centre.

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Mr. Rockefeller discussing Indonesian development issues with Council staff and colleagues at Bogor.

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PREFACE



Vernon W. Ruttan

The Country Associate Program

The Council's program is built around its staff of Country Associates, each of whom is a professional social scientist. They are appointed on a relatively long term basis and are stationed in teaching and research institutions in Asia. About half of the Associate's time is devoted to professional responsibilities in the institution in which the Associate is located and about half to other professional development activities. In addition to its staff of Associates the Council also appoints, usually on a shorter term basis, Council Specialists, Research Fellows and Visiting Professors.

The Fellowship Program

The Fellowship Program is the largest and most visible Council program activity. In 1976 there were 35 Fellows studying toward their Ph.D. degrees in the rural social sciences in North America. Another 35 were studying primarily at the Master's level in Asia (including Australia). The most significant recent development is this increase in the number of Fellows who are studying in Asia.

The Seminar Program

The Council supports twin seminar and workshop programs. One, directed from the Council's New York office, has a global focus on issues of intellectual and policy significance in the field of agricultural and rural development. The other, directed from the Singapore office, focuses on issues that are of particular significance to educators, researchers, administrators and policy makers in South and Southeast Asia. A special effort is made in both programs to make them mutually reinforcing and to involve participation by younger professionals.

The Publications Program

The Council's Publication Program is designed to make available significant new ideas in the field of agricultural and rural development to development professionals and to make more effective training materials available to educators and researchers.

Vernon W. Ruttan

STAFF ACTIVITIES



William M. Bateson

During 1976 the Council expanded and reoriented the direction of its work in the rural social sciences in Nepal by developing a five-year program of research and training jointly with His Majesty's Government of Nepal and the U.S. Agency for International Development.

In conjunction with the expanded program, Dr. Bateson, who was serving as a Council Specialist with the Centre for Economic Development and Administration at Tribhuvan University, was appointed as Associate and posted at the Agricultural Projects Services Centre, an autonomous research unit associated with the Ministry of Food, Agriculture and Irrigation. In addition, a Council Specialist will be added to work directly with the Evaluation and Project Analysis Division of the Ministry of Food, Agriculture and Irrigation.

The Council Associate and Specialist will concentrate their research activities in the areas of production constraints and the diffusion of new agricultural technology and project formulation and evaluation. A research project designed to identify the constraints on production in the Kathmandu Valley and relate the results to the past and on-going activities of the Nepalese agricultural research system is presently under way. The methodology developed will be used to replicate the study in other agro-environmental regions of Nepal.

Under the combined resources of USAID and A/D/C, about 25 young men and women will be sent abroad for training at the Master's level over the next five years; five individuals will be selected for Ph.D. training in the United States. There will also be short-term, non-degree training for participants relating to their institutional needs for increased research and planning skills.

The long-run development of the rural sector in Nepal demands approaches and solutions which are not easily borrowed from either the developing or the developed areas of the world. Access to world markets is limited by its landlocked status. Improvements in internal transportation require large initial and annual investments in roads. Small and diverse microclimates suggest that plant-breeding activities will have a lower rate of pay-off than in much of the rest of South Asia. International resources will continue to be important in Nepalese agricultural development, and the efficiency with which these resources are used will depend on the analytical and policy-making abilities within the family of institutions which serve the rural sector.



Hans P. Binswanger

During 1976 Dr. Binswanger continued with the International Crops Research Institute for the Semi-Arid Tropics (ICRISAT) in India. The Socio-Economics Unit of ICRISAT started few new projects but concentrated on the consolidation of previous research areas and projects.

The Village Level Studies entered the second year of continuous data gathering on 240 households in three agro-climatic zones of semi-arid India. With the arrival of Dr. Victor Doherty, Anthropologist, socio-anthropological issues were receiving more attention. In particular, the economic accounting framework was expanded in such a way as to allow an extensive characterization of formal and informal cooperative behavior and transactions of the households with each other. Another added dimension is the collection of nutritional and health data during three periods of one year. Surveys on attitudes of the households became more important, such as a questionnaire to measure attitudes towards risk. While this questionnaire is still being analyzed, preliminary results show a surprisingly large number of risk neutral households, along with equally large groups of moderately and severely risk averse individuals. Attitudes do not seem to be correlated simply with wealth.

Other research projects with which Binswanger was associated were studies on distributional consequences of technical change, mechanization studies and investigations into quality preferences of consumers for foodgrain characteristics. A considerable amount of time was spent in visiting Indian universities and research institutes, with seminars, discussions and exchange of information about ongoing research projects.

It looks more likely that Binswanger, along with other ICRISAT economists, will become closely involved in the teaching program of the agricultural economics program of Andhra Pradesh Agricultural University.



Edward J. Clay

This has been the second year for Edward Clay as the first ADC Associate in Bangladesh. Inevitably much of his efforts have been directed to the continuation of activities initiated in the previous year. An A/D/C scholarship program is underway and candidates from a wide range of disciplines and institutions are being considered for Ph.D. and M.S. level fellowships for study outside the country.

Clay has continued his involvement with colleagues in micro-level economic research through projects on rice harvesting and the introduction of wheat cultivation. Papers drawing on some of the preliminary findings of these studies were prepared for two workshops during the year. A paper on the fertilizer situation and research policy in Bangladesh was prepared for an East-West Center Inputs conference; another on institutional change and agricultural wages was given at an A/D/C workshop on Factor Markets.

There has been a dramatic improvement in the food production and agricultural input situation during the past year. The focus of attention amongst policy makers and social scientists has switched from famine food deficits and tight input supplies to price disincentives for producers, storage and marketing problems. Clay has made some contributions on these changing problems in work on input prices and agricultural economic research priorities. As events have again demonstrated, policy commentators and researchers are over reacting to the glut or dearth crises of the moment. One of the great challenges for the social scientist working on agricultural problems in monsoon Asia is still to take account of the fickle weather induced variation in production and distinguish "a bend from a trend."

During September Clay, as one of the non-American members of the Staff, visited several U.S. campuses to look at degree training and research programs in agricultural development and other related social sciences. He feels that a great challenge in the coming years will be for the universities in developed countries, particularly the U.S., to maintain their past level of concern for and involvement in agricultural development problems of the less developed countries, especially in Asia.



William L. Collier

Dr. Collier began the year at the Department of Agricultural and Resource Economics at the University of Hawaii in Honolulu. He was able to continue his study on the ecology of the Javanese coastal zone and to prepare several papers based on research done in recent years.

He prepared a monograph entitled, "Income, Employment, and Food Systems in Javanese Coastal Villages." Since most of the information on this topic is rather inaccessible, his aim was to analyze all of the available economic, social, and ecological information on the northern coast of Java.

To summarize research of the Agro Economic Survey on institutional change, he wrote a paper on "Agricultural Evolution in Java: Decline in Shared Poverty and Involution." He also finished a report on the benefits of an irrigation project in south Java for the Agro Economic Survey, and wrote a history of the Survey from 1966 to 1976.

While at the University of Hawaii, Collier gave three seminars on rural development in Indonesia with participation by scholars at the University who are interested in South East Asia.

During the year, he made two trips to Indonesia. The first, to help organize a seminar on coastal villages at Diponegoro University in Semarang, Central Java, and to attend the annual staff conference. His second trip was to assist with research projects of the Agro Economic Survey, to attend the International Agricultural Economics Association's meeting in Nairobi, and to confer with scholars in the Netherlands.

On his return to Hawaii, he participated in the East-West Center's six week workshop on Research Methodology for Fish Farm Management Studies. Participants came from Bangladesh, Malaysia, Indonesia, Thailand, Taiwan, Philippines, Micronesia (Palau), and the U.S. From this intensive effort came proposals for fifteen socioeconomic studies of households conducting aquaculture operations in Asia and the Pacific, several of which have been funded with support from the International Center for Living Aquatic Resources Management (ICLARM) and A/D/C.

In the fall semester, he taught a course on small scale fisheries. Collier's most satisfying experience was working with four Ph.D. candidates who anticipate dissertation field work in Indonesia and the Philippines.



Robert E. Evenson

Dr. Evenson reported on a number of significant changes at the University of the Philippines at Los Banos where he serves as a Visiting Professor and Council Associate for the Philippines. During 1976 a new Institute for Agricultural Development and Administration was formed embracing the three departments of Agricultural Economics, Economics, and Agricultural Business Management. With the recruitment of capable younger staff, the UPLB has been able to broaden and modernize its teaching program. At the same time, Evenson is concerned by the deteriorating "environment for scholarship" resulting from the increasing outside demands on faculty time.

During the year the field work on the Council-sponsored Laguna Household study was completed. To date, one doctoral and six Master's theses have been completed as part of the project and additional project-related dissertations are underway. The project has been successful in involving graduate students in new fields of research while its research findings are beginning to have an influence in policy areas.

Evenson's work on technology transfer has advanced somewhat during the year. More specifically, a paper by him, Robert Herdt, John O'Toole, Ronnie Koffman and Harold Kaufmann, all of IRRI, clarified some of the issues regarding the measurement of stability and adaptability of rice genetic material. It also showed that selection for adaptability, the insensitivity to environmental difference across locations, does not necessarily produce material that is stable, that is, insensitive to environmental difference through time. At the A/D/C Conference on Risk and Uncertainty in Mexico in June, Hans Binswanger and Don Winkleman expressed interest in further work on the topic and in collaboration will be developing a further project to examine the interaction between environmental factors and crop technology in several crops. Two M.S. students are currently working on these problems.



A. T. Mosher

Dr. Mosher's activities related primarily to two projects. From January through August he was engaged full-time as a member of a Study Team reviewing the activities of the Consultative Group on International Agricultural Research—the International Rice Research Institute, the International Crops Research Institute for the Semi-Arid Tropics, and ten others. The review dealt not so much with the substantive research being faced by each of the international institutes as with the administrative arrangements set up by the Consultative Group and by the individual institutes to carry on their work. The system has grown rapidly in the five years since it was established, and major questions of scope and function, interrelationships among institutes, rate of growth and projected growth in the next five years have arisen. These led to the review.

The Study Team visited all of the twelve institutions being supported financially by the Consultative Group, and nearly all of the 26 national and international donor agencies that are members of the Group. The team met three times with the Review Committee for which the study was being made before presenting its final report in September.

Professor A. F. McCalla, of the University of California, Davis, was Director of the Study Team. Other members, in addition to Mosher, were President Ewert Öberg, Agricultural University, Uppsala, Sweden; and Professor James McWilliam, University of New England, Armidale, Australia.

Mosher's other major activity was to help to strengthen the new Institute of (agricultural) Post-Graduate Studies of the University of Sri Lanka. Until this year, the Faculty of Agriculture has engaged only in undergraduate teaching and research. Following a decision to develop an M.Sc. curriculum of course work in each of several agricultural fields, the first students were admitted in May 1976. Most of this first group of students are persons with three to fifteen years of experience in various governmental agencies, seconded by their agencies to participate in the program. To augment the teaching resources of the Institute, qualified persons from various agencies have been recruited to teach individual courses in addition to carrying on with their normal activities. Mosher's assignment has been specifically to develop a course in the administration of extension programs. Primary responsibility for the program in extension is being carried by Dr. P. D. Sathyapala, an A/D/C Fellow who returned recently from study at the University of Wisconsin.



Shao-er-Ong

During the year, Dr. Ong continued his interest in two major research areas: improving teaching materials on farm management and promoting group action among small farmers.

During the first half of the year, he visited eight countries in Asia including India, Indonesia, Japan, Korea, Malaysia, Philippines, Taiwan and Thailand. In his visits, he discussed with Asian farm management professors matters related to the improvement of farm management teaching materials. He also discussed with government officials in these countries methods of motivating farmers to join group action.

Dr. Ong organized a second meeting of a Farm Management Teaching Workshop in Singapore in early June involving ten professors from nine Asian universities. The meeting reviewed more than 60 publications to be used as teaching materials in farm management courses for undergraduate students.

In April and June, he attended the 6th Session of FAO Commission on Agricultural Statistics for Asia and the Far East in Manila and the Jubilee Symposium on Geography and the Environment in Southeast Asia at the University of Hong Kong respectively. In the latter meeting, he presented a paper on "Impact of Urbanization on the Environment—a Case Study of Bangkok."

Located at Kasetsart University, Bangkok, Dr. Ong kept his close interaction with professors in several universities in Thailand, with social scientists working at various UN agencies, and with officials in the Ministry of Agriculture and Cooperatives.

During the second half of the year, Dr. Ong began a reassignment year in the Department of Agricultural Economics, Michigan State University. He led seminars on Small Farm Management Problems in Asia at the University of Minnesota, Michigan State University and the University of Tennessee, and helped to organize a Farm Management Teaching Workshop scheduled for next year. He will return to Thailand in July 1977.



C. Geoffrey Swenson

Dr. Swenson continued with his assignment as a Visiting Professor in the Sosek Department of the Institute Pertanian Bogor (Bogor Agricultural University). His major emphasis in the department has been in teaching and advising students in the Master's degree program which was in its second year. He continued teaching the basic course on micro-economics and added a special topics course which was oriented to applying micro-economic theory to research problems.

Visits were made during the year by Dr. Swenson to eight regional universities in Indonesia in order to assess the training needs and research capacity at these universities.

The administration of the Supplemental Program in the Rural Social Sciences (SPRSS) was continued while a new Indonesian foundation (Yayasan Ilmer-Ilmer Sosial) was being formed to carry out some of the objectives previously accomplished under SPRSS. The 1976 activities of SPRSS included partial support to four masters students studying in Australia, full Ph.D awards for two students studying in the Philippines and one student for Ph.D. study in Australia. Also, there was partial support for two Ph.D. students studying in the U.S. In addition, SPRSS continued its support of Mr. and Mrs. Johannes Palte in their Visiting Research Specialist position at Brawidjaya University in Malang.

Research on income distribution and employment was continued in a village study in Sukabumi Kabupaten in West Java. In addition to Dr. Swenson, the project has involved two staff members from Sosek IPB, one member of the Sukabumi Kabupaten Planning Board and several students at IPB. The survey stage of the research was initiated in 1976 with a second survey to be taken in early 1977.



Donald C. Taylor

Taylor's time was divided about equally between Malaysia and Madison, Wisconsin, where he is spending a reassignment year in the University's Department of Agricultural Economics.

Taylor's headquarters in Malaysia is the Malaysian Agricultural University. During this year he taught a course in research methods, helped to develop the content of the university's resource economics curricula, and participated in a variety of discussions on faculty development.

Taylor's primary professional interests are in land and water resource management and policy. These interests were pursued in part through field trips with Asian colleagues to a variety of irrigation projects in Kalantan, Kedah, and Perak states in Malaysia and West Java, East Java and Riau provinces in Indonesia. These involve the full range of reservoir, river, diversion, and pumped sources of water supply; some schemes date back over 50 years while others are just getting established. Some involve 100,000 hectares, others only a few hundred.

Taylor's research has emphasized financial policies for securing repayment in canal irrigation projects, the economics of various management options in irrigation and the possibilities of restructuring irrigation institutions to make them more responsive to the needs of the full range of cultivators served by the irrigation schemes.

Taylor continues to play a major role in the Asian Regional Communication Network which had its beginning last year. An irrigation bibliography and two issues of a Network Newsletter were published. A major challenge for the Network is to identify high priority needs from among its researchers and operation and management clients.

Taylor's reassignment year at the University of Wisconsin involves course retooling, teaching and research, and getting reacquainted with the U.S. profession and U.S. agriculture.



Nancy E. Waxler

After her arrival in Sri Lanka in July, Dr. Waxler began teaching in the Sociology Department at the University of Sri Lanka, Peradeniya, and in the Department of Agricultural Economics and Extension. She has two courses, one in Introductory Psychology, the other in Rural Sociology, in the new Post-graduate Institute in Agriculture. She is developing an outline and reading materials of interest to postgraduate students that can in the future be used by a local faculty member as a basis for these courses. The Introductory Psychology course was completed in December and will be revised for use next year, moving even further away from the lecture format toward discussion of applied problems in psychology.

The main purpose of her work in the Sociology Department is to help upgrade faculty skills. The three "core" faculty members are all interested in and have done some work in problems of development in rural villages, yet none is skilled in research methods nor the organization of research projects. A faculty seminar for these lecturers will cover all aspects of social research by use of case materials from their own or other Sri Lankan work. It is hoped that this will lead to a department research project in which the faculty supervises the work of senior students. The initial work began in August when thirty upperclassmen participated in a ten-day field research project collecting a variety of sociological data on the organization of the largest collective farm in Sri Lanka.

In addition to the research seminar, Dr. Waxler teaches two undergraduate courses to English-medium students in Social Psychology and Culture Personality. She also supervises the teaching of the same courses to Sinhalese-medium students.

This year she has continued her research in social psychiatry in Sri Lanka which shows that the outcome for treated mental illness is much better in the less developed countries than in the West. Waxler attributes this to beliefs and practices in peasant societies that serve to integrate rather than to alienate deviant people. She is analyzing detailed data on treatment experiences and psychiatric status of Sinhalese patients treated in both Western and Ayurvedic treatment centers.



Benjamin N. F. White

Dr. White is Participating Consultant to the Agro Economic Survey's Rural Dynamics Project in Indonesia, on a two-year assignment made possible by a grant from the Ford Foundation. The Rural Dynamics Study (RDS) is a long-term, policy-oriented study of rural change, aiming to provide information and recommendations to policy makers on rural development strategies.

During 1976, the RDS completed preliminary analysis of data from all 800 villages of the Cimanuk River Basin (West Java) and began research in 20 sample villages on the three main topics of Production Systems, Employment and Rural Institutions. White's activities in staff training and research focus on the latter two of these topics. Besides developing a firm base of quantitative research through conventional survey techniques, White encourages experimentation with anthropological techniques of research through a series of "quick studies" in the sample villages which can produce rapid results on issues of immediate concern at extremely low cost. The junior-level staff are encouraged to play an active role in decision-making at all stages of the research.

Early in 1976 White joined Dr. Birowo and Dr. Sinaga in teaching a short course on "Rural Development: Problems and Strategies" in the University of Indonesia's "Indonesian Development Studies" program (sponsored by the Institute of Social Studies, The Hague). Later in the year he taught the "Population Studies" course to Master's degree students at Bogor Agricultural University. White was co-organizer (with Associates Evenson and Binswanger) of the RTN Workshop on Household Studies in Singapore, at which he presented two papers. In December, he joined Dr. Sinaga at the ESCAP Expert Group Meeting on Rural Institutions Serving Small Farmers, in Bangkok, for which the RDS team had prepared the Indonesia Case-Study paper.

In May, White returned briefly to the Department of Anthropology, Columbia University and was awarded the Ph.D. degree with distinction for his dissertation, "Production and Reproduction in a Javanese Village."

THE ASIAN FELLOWSHIP PROGRAM

Since 1971 the Council has taken steps to strengthen and enlarge its Asian Fellowship program by supporting an increasing number of graduate students at institutions in Asia and Australia. With few exceptions, these are Master's level awards confined to the rural social sciences in such fields as agricultural economics, rural sociology, agricultural extension, rural administration.

The Council granted its first graduate study fellowship in 1954. Since that year there have been 398 awards: 158 for study at Master's level, 170 for study at the Ph.D. level, and 70 non-degree and travel fellowships. During the first two decades, the great majority of fellowship holders pursued their study in the U.S. although a selected number among them were placed at universities in Asia, Australia, Europe, and the U.K. This pattern has now changed to the point where, today, the majority of Fellows are placed in M.S. programs in Asia while a smaller number receive awards for Ph.D. study in the U.S.

Evidence of this shift is seen in Tables A and B. In the five-year period from 1971-1976 the Asia Fellowship Committee has made over 80 awards. A total of 77 have been activated or are in process, and new awards are being given at the rate of 20 or more per year. Since 1971, 30 Fellows have completed their programs of study under the Asia Fellowship Program and have returned to teaching, research, and administrative positions at home. Another 24 are currently enrolled in their graduate programs while 23 recent awardees are being processed for placement in 1977.

TABLE A

Summary of Asian Fellowship Program Grantees for 1971-1976:				
Country of Origin and State of Award				
Country	Completed	Current	In Process	Total
India	4	—	—	4
Nepal	3	6	7	16
Taiwan	2	—	—	2
Philippines	7	2	1	10
Sri Lanka	2	1	3	6
Thailand	5	2	2	9
Pakistan	1	—	—	1
Malaysia	2	8	—	10
Bangladesh	2	—	6	8
Indonesia	1	4	3	8
Korea	1	1	1	3
TOTAL:	30	24	23	77

The ability of the Council to implement an Asian Fellowship program of this size is a reflection of the growing capacity for graduate education in the rural social sciences and the social sciences generally in Asia. In the mid-1960's only two or three of the institutions listed in Table B were in a position to offer programs of study leading to the Master's degree. By the mid-1970's several had developed reputations as strong national and regional centers, and some had developed effective Ph.D. programs in order to meet the expanding needs for professional capacity in the social sciences.

The expansion of the Asian Fellowship Program has been made possible primarily through the generous support of the International Development Research Centre of Canada. Strategic support for this as well as for the U.S. fellowship program has come from the Ford Foundation, the U.S. Agency for International Development and from the Council's own resources.

One way to describe the programs in which Council Fellows have been enrolled in Asia is through some case studies. These case studies are designed to illustrate the educational background, the academic programs, and the professional plans of six Fellows who are currently studying, or who have studied.

TABLE B

Summary of Asian Fellowship Program Grantees for 1971-1976:		
Placement		
Country	Institution	No. of ADC Students
India	Andhra University	1
	Punjab Agricultural University	1
	Tamil Nadu Agricultural University	1
Indonesia	Bandung School of Social Welfare	3
Thailand	Thammasat University	5
	Kasetsart University	1
Malaysia	Universiti Sains Malaysia	2
	Universiti Pertanian Malaysia	3
Philippines	University of the Philippines at Los Banos	22
	University of the Philippines at Diliman	7
	Ateneo de Manila University	1
Australia	University of New England, Armidale	4
Lebanon	American University of Beirut	2
Taiwan	National Taiwan University	1
TOTAL:		54

with the support of the Asian Fellowship Program. It would be difficult to identify a typical Council Fellow; the cases presented do, however, illustrate the range of experience among them.

Although the majority of students supported in the AFP have been males, there is an increasing number of females entering the program. One woman currently enrolled in the School of Social Welfare at Bandung, Indonesia where she is working on an M.A. (Master of Social Work) is Mrs. Umi Kalthum Isa who previously was District Social Welfare Officer, Kinta in Perak, Ipoh, Malaysia.

As District Officer, Umi's work included family and child care services and preventive services as well as involvement in community development programs. Umi, along with two other ADC students from the Malaysian Social Welfare Department now finishing their studies at Bandung, completed a Diploma in Social Studies concentrating on Social Work and Social Administration at the University of Singapore before entering S.T.K.S. At S.T.K.S. the students were required to complete the Bachelor's degree before being admitted into the Master's program. Umi's thesis was on "The Role of 'Rancangan Tanah Belia Khas Perlop 1' In Overcoming Youths' Problems in the State of Perak, Malaysia." Her current area of research, which is being conducted in Indonesia, is on the open system of rehabilitation in children's homes. Umi reports that one of the most valuable aspects of her training in Indonesia has been the field work experience, including 45 days of continuous living in the village. As a Malaysian, she did not find great difficulties in making adjustments to her new environment and culture. Umi believes that "this is due to the Eastern culture and social values that are akin between Malaysians and Indonesians. We are often referred to, in this region, as 'Bangsa Serumpun' or nation of the same archipelago." In December 1975, Umi married one of her classmates, Muhamad Mustahar Isa. They both plan to return to Malaysia to work for the Department of Social Welfare upon completion of their study programs in Indonesia in early 1977.

As shown in Table B a large proportion of ADC students have studied in the Philippines, especially at the University of the Philippines at Los Banos. One student currently enrolled there in a Master's program in Agricultural Education is Suranimala Wirasinghe from Sri Lanka. Before entering UPLB in 1975, Wira, a 1968 graduate of the University of

Ceylon at Peradeniya, served as District Agricultural Extension Officer in Ampara. At UPLB he has compiled an outstanding academic record with an overall g.p.a. of 1.15 taking courses not only in his major field but in development communication and statistics as well. On the personal side, Wira has found the Filipinos friendly and helpful and he has made the adjustment to Philippine student life with minimal difficulty. He is currently at home conducting thesis research on the socio-economic factors associated with the extent and pattern of adoption of high yielding rice varieties and related farming practices.

Another student who entered the program from government service is Mohd Yussof Nair. He comes from Kota Kinabalu, Sabah, Malaysia, where he works as an Assistant Officer in the Department of Agriculture. Nair, who is a 1970 graduate of Dalhousie University in Nova Scotia with a B.S. degree in Chemistry, is the first Master's candidate in the Faculty of Resource Economics and Agribusiness at the Universiti Pertanian Malaysia. After a year and a half of coursework, he is just commencing work on a thesis which will focus on "Mangrove Swamps—the Potential for Forestry and Fisheries." His thesis supervisor is Dean Radzuan Abd. Rahman, a former A/D/C fellow who completed his Ph.D. degree at Cornell University.

Though the majority of ADC-sponsored students have come from Southeast and South Asian countries, there continue to be a few candidates from East Asia such as Mr. Young Chul Kim. Mr. Kim, who along with his wife and son are reputed to be the only Koreans in the State of Andhra Pradesh, India, is working on his Ph.D. in Agricultural Economics at Andhra University at Waltair. A 1960 graduate of the College of Agriculture of Seoul National University, he worked for over ten years for the National Agricultural Co-operative Federation in Seoul as an analyst and researcher in the field of agricultural credit. He was enrolled at Andhra initially in a Master's degree program. Because of his fine performance and with the encouragement of the host university, he continued on in the Ph.D. program. Mr. Kim is currently writing his dissertation on the topic "A Study of Credit Use and Resource Allocation on Small Farms: A Korean Case." He is expected to complete the degree and return with his family to Korea by the end of 1977.

In 1976 the Asian Fellowship Program sent its first group of students to Australia to study at the University of New England at Armidale. Among these was Chandra Man Rokaya, Loan Officer with the Agricultural Development Bank in Kathmandu, Nepal. An honors graduate at G.B. Pant University of Ag-

*The first youth land development scheme undertaken by the State Government of Perak.



Umi Kalthum Isa



Suranimala Wirasinghe



Mohd Yussof Nair



Young Chul Kim



Chandra Man Rokaya



Lee Shun-cheng

riculture and Technology, Pantnagar, India. Rokaya comes from the remote village of Tarakot in the Dolpo District of Nepal where he spent his earliest years trying to reclaim his family lands which upon the death of his parents were usurped by a paternal uncle. His case came to the personal attention of the late King Mahendra who during a visit to the area was so impressed with the 12 year-old's tenacity that he brought Rokaya to Kathmandu and put him in a boarding school. After six years of schooling Rokaya passed the School Leaving Exam (10th grade) in the first division and returned to Tarakot where he served as a headmaster at the village primary school. In 1967 he won a five-year USAID scholarship to India where he completed a diploma at Agra and a Bachelor's in Agriculture and Animal Husbandry at G.B. Pant. Rokaya is the only university graduate from his entire district. In addition to his mother tongue, Kaikay, he speaks Magar, Nepali, Hindi, English and Tibetan. At the University of New England his agricultural development studies will strengthen his commitment to work on the economic and social problems of the Himalayan peoples.

Mr. Lee Shun-cheng is an example of a Fellow who, as a result of the collaboration between the Asian and the U.S. fellowship programs, has moved from one to the other. Mr. Lee graduated in 1971 from National Taiwan University with a B.S. degree in Agriculture, specializing in economics and statistics. From 1973-75 he studied under the Asian Fellowship program at Thammasat University in Thailand where he compiled an outstanding record while completing a Master's degree in Economics. His Master's thesis was "A Case Study of Production Efficiency of Rice Growing with Special Reference to the Fertilizer-Rice Barter System in Taiwan, Republic of China, 1950-1972."

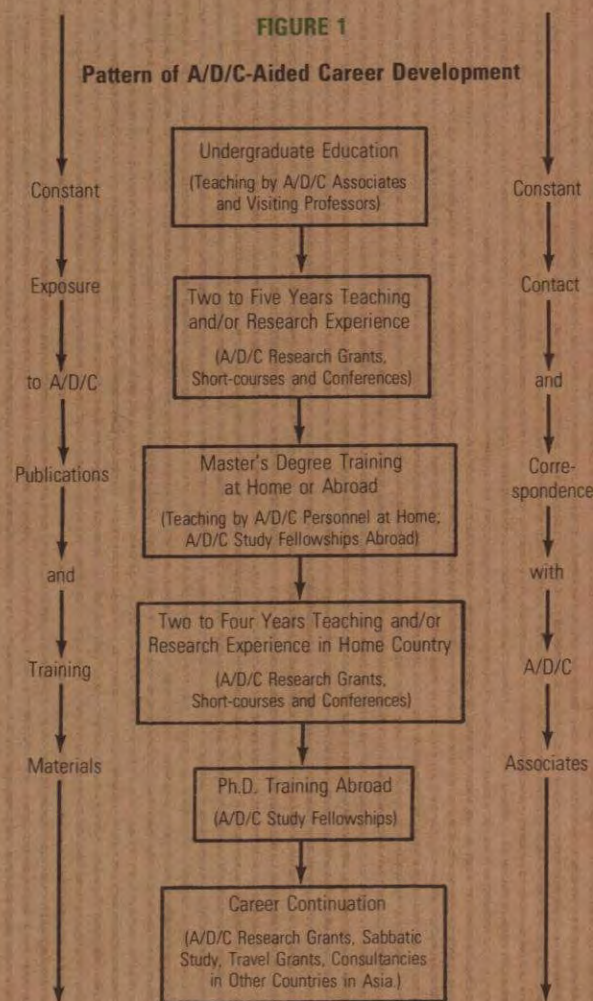
He returned to N.T.U. where he taught for a year during which time he was considered for and received an award from the U.S. Fellowship Committee. In the Fall of 1976, Mr. Lee began a Ph.D. program in the Department of Agricultural and Applied Economics at the University of Minnesota.

Mr. Lee is one of two former AFP Fellows who have undertaken further graduate study in the U.S. under Council support. Thus, the Council's two fellowship programs, one in Asia and one in the U.S., mutually reinforce one another.

A unique feature of the Council's fellowship programs is the ongoing interest the Council takes in each Fellow's career development. (Fig. 1). The Council's ability to select fellowship candidates who have both the academic qualifications and the professional characteristics required rests on its network

of Associates located in Asian educational and research institutions. The Associates are familiar through personal contact with the educational background and professional experience of the candidates before recommendations are made. Council Associates often teach in the graduate programs in which potential fellowship holders are enrolled.

The Council also endeavors to support the continuing professional development of former Fellows. Several elements in its program are designed primarily to expand the capacity to deal with the economic and human problems of agricultural and rural development in Asia on the part of social scientists who have completed their graduate training. These include (a) a program of seminars and workshops designed to strengthen the research and training capacity of staff members of Asian research and training institutions; (b) a program of small grants to encourage more effective research efforts by junior professionals in Asian research and training institutions; (c) a program of exchange of visiting professors among Asian universities; and (d) a publication program designed to place more effective training materials in the hands of Asian teachers and researchers in the development related social sciences.



REGIONAL RESEARCH AND TRAINING PROGRAM

The Council's regional activities are developed as one part of a total A/D/C program. The R.R.T.P. reinforces and is reinforced by the work of the Associates, country by country. The workshops and seminars are conducted in concert with the RTN program permitting in many cases joint planning and joint participation among social scientists from within Asia and outside Asia. Similarly, the Council's fellowship and publication programs, though administered from bases in Singapore and New York, serve a single objective which is to increase the capacity of individuals to deal with the development problems of the rural sector. In many countries the professional capacity in the rural social sciences remains thin. The continuing need is to identify encourage and place those with potential in a suitable learning environment. Another task is determining a proper mix of support activities (publications, research grants, seminars, etc.) that will help to protect the human capital that exists. The process is slow, it is expensive, and there are no panaceas, but progress is perceptible and we remain encouraged.

The opportunity to extend support on a regional basis to younger Asian scholars and mid-career professionals in academic and government institutions engaged in research and training on agricultural and rural development has continued to expand during the year. There was a significant increase in the number of students in the Asian fellowship program, (see pp. 12-14); the seminars and workshops reflected and complemented the full range of activities; and, the number of research grants awarded to younger scholars increased substantially over the previous year. Several appointments were made under the visiting professor and consultant programs, and a number of publications were prepared and distributed. (see p. 20) The staff of the RRT program, (Harris, Langham and Retzlaff) traveled extensively throughout East, Southeast, and South Asia visiting universities and research institutes and participating in professional meetings.

Seminars & Workshops:

The results of research being conducted by younger scholars, including many at the post-MA level, figured prominently in several of the seminars and workshops. The seminar on *Irrigation Policy and Management in Southeast Asia* was held at Los Banos from June 22-25, under joint ADC, IRRI and SEARCA auspices. It provided an opportunity for a number of younger scholars working on applied problems relating to irrigation systems to discuss their research findings with middle level government officials responsible for the administration of irrigation programs, senior officials responsible for the formulation of irrigation policy, as well as a number of senior research scholars.

The workshop on *Household Studies* held in Singapore from August 3-7, 1976 under joint RRT and RTN auspices provided the opportunity for younger scholars working within the region to compare approaches to the analysis of household behavior within different social science disciplines, and to discuss evidence from empirical studies with a number of senior scholars from both Asia and North America.

These studies covered four general areas: 1) The role of nutrition, including studies of determinants of nutritional status and studies of the influence of nutritional status on household behavior. 2) The allocation of time by household members including time budget studies and studies analyzing the effect of wages and other household characteristics on time allocation. 3) The role of children in the household including determinants of fertility and investment in health, schooling and welfare of children. The contribution that children make to household welfare was also discussed. 4) The effect of social and technical change on the household.

It is expected that a volume based on the Workshop will be produced.

The seminar on *Agricultural Sector Analysis*, jointly sponsored by the RTN, focussed on economic analysis to support agricultural policies. The major objective was to allow Asian organizations to share their experiences with large agricultural sector modelling efforts. Representatives from countries not yet committed to such efforts benefited from this exchange of information about alternative approaches and discussed the pros and cons of such models.

A complete list of the seminars and workshops held by the RRT as well as support made available to enable Asian scholars and officials to participate in other seminars follows:

Workshop on *Training Needs in the Development Related Social Sciences in Asia*, Singapore, March 9-10.

Workshop on *Research Methods Publications*, Singapore, February 26-27.

Workshop on the *Preparation of Farm Management Teaching Materials*, Singapore, June 2-4.

Seminar on *Irrigation Policy and Management in Southeast Asia*, Los Banos, June 22-25.



Max Langham



Ralph H. Retzlaff



Seminar on TECHNOLOGY and FACTOR MARKETS, Singapore. Far left proceeding clockwise; Hicks, Welch, Herdt, Clay, Binswanger, Langham.

Workshop on *Household Studies*, Singapore. August 3-7.

Seminar on *Technology and Factor Markets*, Singapore. August 9-10.

Regional Seminar on *Agricultural Sector Analysis*, Singapore. November 8-10.

Seminar on *Regional/Area Planning and Resource Development*, Pantnagar, District Nainital, Uttar Pradesh, India. May 27-29. One participant from Nepal.

Tenth Waigani Seminar 1976, Lae, Papua New Guinea, May 3-9. One participant each from the Philippines and Liberia.

Seminar on *Towards a Progressive Agribusiness Community*, Universiti Pertanian Malaysia, Serdang, Malaysia. August 12-14. One participant each from Thailand, India and Indonesia.

Farm Water Management Symposium of the Asian Productivity Organization, Tokyo, Japan, September 7-13. One participant from Sri Lanka.

Workshop on *Research Methodology for Fish Farm Management Studies*, August 16-September 24; and, *Small Scale Fisheries Development Plan-*

ning Meeting, September 6-11. The Food Institute, East-West Center, Honolulu, U.S.A. One participant each from Indonesia and Malaysia.

Research and Collaboration:

The program of research grant support seeks to identify younger scholars at the pre and post doctoral level to whom modest grants would be of assistance in the completion of dissertation research or in initiation of a first independent research venture. The following persons were awarded support for research in 1976:

1. Mr. Chatt Chamchong, Kasetsart University, Bangkok, Thailand. Dissertation research on "A Spatial-Temporal Analysis of the Thai Sugar Industry."

2. Ms. Leela Pathak, of the Ministry of Food, Agriculture and Irrigation in Nepal. Dissertation research on "Employment in Nepalese Agriculture."

3. Drs. Sediona, M P Tjondronegoro, Sos-Ek Department of the Institut Pertanian Bogor, Indonesia. Partial support of a project entitled "The Organizational Phenomenon and Planned Development in a

Rural Community on Java (Sukabumi, West Java as compared with Kendal, Central Java)."

4. Mr. Paiboon Suthasupa, Department of Agricultural Extension, Faculty of Agriculture, Chiangmai University, Thailand. Dissertation research on "Some Factors Affecting the Expansion of Multiple Cropping in Northern Thailand."

5. Mr. Preeda Prapertchob, Department of Agricultural Economics, Khon Kaen University, Thailand. Dissertation research on "An Economic Analysis of Irrigation Development in Northern Thailand: The Case of Nong Wai Irrigated Agricultural Development Project."

6. Dr. Yeoh Oon Lee, Fakulti Pertanian, Universiti Malaya. Preparation of a research article based upon his Ph.D. dissertation research.

In addition to the above grants to individuals, the RRT program has extended support for two group research projects:

7. The first of these was to a group of younger scholars based at the Institute of Agricultural Development and Administration at the University of the Philippines at Los Banos to conduct a household survey in Laguna Province.

8. The second, a grant to support the research of several younger scholars associated with the coastal ecology project being conducted at Diponegoro University in Indonesia.

Visiting Professor and Consultants:

The visiting professor and consultants program provided assistance to teaching and research programs throughout the region. During the year we have supported the following appointments:

Professor M. Halim Khan, Department of Geography, Aligarh Muslim University, India, to serve for one year as a Visiting Professor at the Institute of Ecology at Padjadjaran University in Bandung, Indonesia, assisting students and younger faculty members associated with the research program of the institute.

Professor Andi Hakim Nasoetion, Dean of the Department of Statistics and Computation, Institut Pertanian Bogor, Indonesia, to serve as a short-term consultant to the Philippine Social Science Council, Manila, the Philippines, to assist in a review and analysis of teaching materials being prepared for publication in the field of Survey Research Methodology.

Professor Keizo Tsuchiya, Department of Agricultural Economics, Faculty of Agriculture, Kyushu University, Fukuoka, Japan, to spend one semester as a Visiting Professor at Thanmasat University, Bangkok, Thailand, teaching agricultural economics and assisting students with their research.



Ms. Gladys Gwee mailing publications from the Regional Office.

RESEARCH AND TRAINING NETWORK

The Research and Training Network serves both the Asian and the global development-oriented community through its program of seminars, workshops, and publications. In giving attention to issues specific to Asia or involving Asian participants, the RTN typically collaborates with the Council's Regional Research and Training program.

Funded by the Agency for International Development, the RTN provides a locus for discussion of policy issues on the part of A.I.D. bureau personnel, Council staff, international development agencies, and the social science teaching and research community.

The RTN is directed by Dr. A. M. Weisblat from the Council's New York office.

During the year under review, the program has proceeded within the guidelines suggested by its Program Committee, a group representing the Council's Board of Trustees, A.I.D., the American Association of Agricultural Economics, and the International Association of Agricultural Economists. Thus, there has developed a closer liason with A.I.D. personnel in program planning and implementation. The links with the Council's R.R.T. seminar program have been strengthened, and there has been an increasing number of participants from the developing countries. They currently comprise about twenty-five percent of RTN seminar participants, on an average; where there is joint sponsorship of a seminar with the Council's regional office, the percentage of LDC participation is much higher.

One continuing problem is that of identifying and involving younger American social scientists concerned with issues of agricultural and rural development. One means of securing their participation is to work with graduate students in the thesis-writing stage whose thesis research relates to specific RTN concerns. They are drawn in as either participants or observers. It is important to identify and keep in touch with the emerging generation of social scientists who are or will be concerned with international development, to expose their work to critical appraisal, and to encourage their continuance in this field.



A. M. Weisblat

During 1976, the RTN and the RRT jointly sponsored five seminars in the following areas:

Irrigation Policy and the Management of Irrigation Systems in Southeast Asia, Household Studies, Technology and Factor Markets, Agricultural Sector Analysis, and Time Allocation in Rural Households with Special Emphasis on the Role of Women. (See pp. 15-16)

Other seminars were organized affording discussion on a range of important issues.

U.S. Cooperatives, the Small Farmer and Rural Development

One instrument for improving the lot of the rural poor in the U.S. has been the cooperative movement. Now, there is a growing interest in utilizing the experience and resources of U.S. cooperatives to help deal with small farmers problems in developing areas. Two seminars were held, one in January in New York, a second one in Madison, Wisc. in July, and additional ones are planned for the coming year.

Risk and Uncertainty in Agricultural Development

From March 9-13 a group of thirty-two university faculty, agency staff, and overseas participants met at CIMMYT headquarters in El Battan, Mexico. The purpose of the seminar was to review current work, stimulate new research, and plan a reference volume of alternate approaches. Current concerns include optimal farm inputs under conditions of risk and uncertainty, means of measuring risk and risk preferences among farmers, and the fuller development of descriptive models. A seminar report is under preparation.

Improving Ruminant Livestock Production on Small Holdings

This seminar was held in June at the WINROCK International Livestock Research and Training Center at Morrilton, Arkansas. An RTN Seminar Report is available (see p. 20) which describes more fully the range of discussion on the significance of small livestock enterprises, the variation in production systems, and factors bearing on their success and failure.

Changing Roles of Women in Rural Societies

This seminar was held in August at Torun, Poland in conjunction with the Fourth World Congress of Rural Sociology. The RTN provided funding for some of the LDC participants, and the Director worked with Gelia Castillo of the University of the Philippines, Elinor Barber of the Ford Foundation and others in planning the workshop agenda. An RTN Seminar Report will be issued in February, 1977.

Minimum Information Systems for Agricultural Development in Low Income Countries

In early December, twenty-four participants met at Oxford University to discuss a number of questions related to the generation and maintenance of agricultural data for development practitioners. For example, who are the users of such data and what kinds of data do they need? Who are the data suppliers and what data gathering systems best meet minimum needs? How can data collection and analysis be unified to achieve an integrated information system?

In addition to the above, the RTN sponsored a number of small planning workshops throughout

the year on Cooperation, Small Farmer Development, Data Collection, and International Training in Agricultural Economic Development.

Publications issued by the RTN in 1976 included two monographs, one Reprint, and two seminar reports. (See p. 20). The major publication was the book on *Resource Allocation and Productivity in National and International Agricultural Research*, edited by Arndt, Dalrymple, and Ruttan, and published by the University of Minnesota Press. This book is an outgrowth of the RTN-sponsored conference held at Airlie House, Virginia in January, 1975.



Participants at the Seminar on RISK, and UNCERTAINTY, CIMMYT, March 1976.

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Economic Theory and Practice in the Asian Setting—The Economics of Agriculture, Wiley Eastern Limited, New Delhi, India. Volume 3, 1975. 254 pp.

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No. 47, Lynch, F., "Question Types and Sampling Designs in Survey Research: Rethought Categories and Rules for Choice", February 1976. Agricultural Development Council, Tanglin P.O. 84, Singapore 10.

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No. 2, Mosher, A. T., "Extension Teaching in Asian Universities", Singapore, June 1976. Agricultural Development Council, Tanglin P.O. Box 84, Singapore 10.

No. 3, Stifel, L. D., "Imperfect Competition in a Vertical Market Network: The Case of Rubber in Thailand", Singapore, October 1976. Agricultural Development Council, Tanglin P.O. Box 84, Singapore 10.

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*Activated in 1976

†Completed in 1976

AFP Individuals supported in the Asian Fellowship Program with IDRC support

1976 GRANTS

Agricultural Projects Service Centre Kathmandu, Nepal		Institut Pertanian Bogor Department of Socio-Economics Bogor, Indonesia	
Equipment grant of two calculators .	\$ 860.00	Support of two M.S. studies scholarships in the Department	6,408.00
M. G. Anonuevo University of the Philippines College, Laguna, Philippines		Kasetsart University Home Economics Department Bangkok, Thailand	
Special travel grant to Stanford University	650.10	Partial support of a seminar on "The Role of Home Economics in National Development"	1,000.00
Dr. R. R. Appadurai, Dean Faculty of Agriculture University of Sri Lanka Peradeniya, Sri Lanka		Dr. Jawahar L. Kaul Department of Economics and Sociology Punjab Agricultural University Ludhiana, India	
Travel grant for professional visits while in the U.S. to attend an Agency for International Development conference	755.52	Travel grant to enable him to return to India to a position at the Punjab Agricultural University	2,245.00
Mr. Francis K Chan Department of Economics University of Singapore Republic of Singapore		Mr. P. S. Majumdar Planning Commission Government of India New Delhi, India	
Final payment of 1975 grant in support of his work toward completion of Ph.D. degree	205.00	Support of six-month study period at the Institute of Development Studies, University of Sussex	1,491.50
Dr. A. S. Charan South Gujarat University Surat, India		Mr. W. R. D. Nilaweera Deputy Director of Planning & Implementation Ministry of Agriculture & Lands Government of Sri Lanka Colombo, Sri Lanka	
Support for participation in a Study Seminar on Irrigation and Employment Strategies at the Institute of Development Studies, University of Sussex	1,796.54	Travel grant for professional visits while in the U.S. for a course at the World Bank	75.00
Dr. N. R. Deomampo, Chairman Department of Agricultural Economics University of the Philippines College, Laguna, Philippines		Dr. G. Parthasarathy Head, Department of Cooperation and Applied Economics Andhra University Waltair, India	
Support for a one-year visiting professorship at the University of Minnesota	10,687.39	Support of one-year visiting professorship at Cornell University	5,488.84
Gadjah Mada University Faculty of Economics Yogyakarta, Indonesia		University of the Philippines Institute of Agricultural Development College, Laguna, Philippines	
Partial support of 1975 Workshop in Agricultural Extension	965.02	Partial support of 1977 Summer Program in Economics	8,000.00
Dr. Eu-Gak Hwang Sogang University Seoul, Korea			
Travel grant to return to Korea and accept a position offered to him by Sogang University	619.00		

Dean Phoonphon Asanachianta
Chiangmai University
Chiangmai, Thailand

Travel grant for professional visits to
Departments of Geography in Malay-
sia, Singapore and Indonesia 1,177.76

Mr. Young-Key Ro
Economic Research Institute
Chung-Ang University
Seoul, Korea

Travel grant to enable him to accept
an M.S. scholarship at Ohio State
University 758.10

Dr. Sopin Tongpan, Dean
Faculty of Economics and
Business Administration
Kasetsart University
Bangkok, Thailand

Partial support for participation in
the World Food Conference at Iowa
State University 250.00

Tribhuvan University
Centre for Economic Development
and Administration
Kathmandu, Nepal

Equipment grant of one calculator .. 819.61

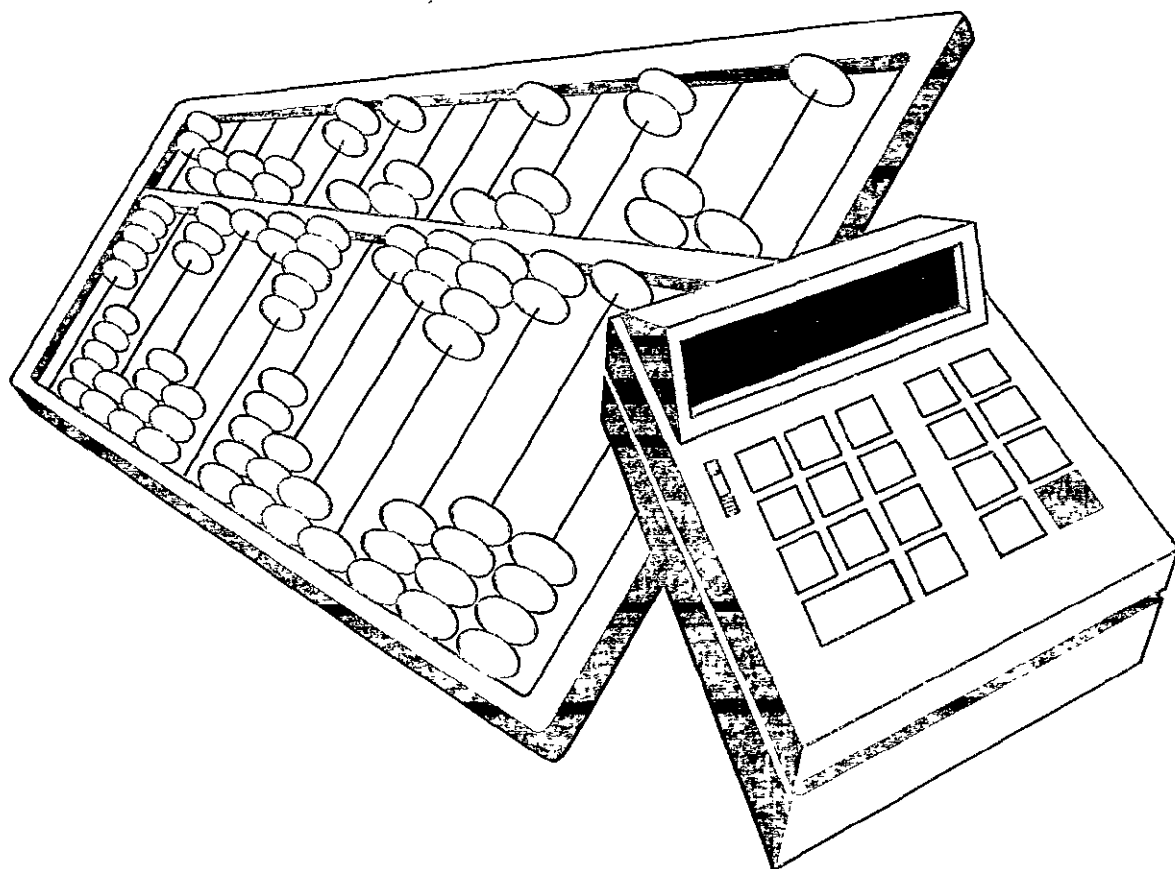
Mr. Upali Nanayakkara
National Institute of Management
Colombo, Sri Lanka

Support to enable him to complete
his Ph.D. program at Michigan State
University 1,673.40

Grants of travel and maintenance costs
to five individuals in connection with
the 1976 Triennial Conference of the
International Association of Agricul-
tural Economists held in Nairobi, Kenya
in August 1976 9,549.10

Dr. Annesley Fernando (Ministry of
Plantation Industries, Sri Lanka), Mr.
Bambang Ismawan (Agricultural
Economics Society of Southeast Asia,
Indonesia), Dr. Kamphol Adulavid-
haya (Kasetsart University, Thai-
land), Dr. Dong Hi Kim (National
Agricultural Economics Research In-
stitute, Korea), Dr. Rudolf Sinaga
(Rural Dynamics Project, Indonesia).

Book Grants to Asian Institutions . . . 3,095.82



BALANCE SHEET

December 31, 1976 and 1975

ASSETS

Unrestricted Funds

	1976	1975
Cash, Including Certificates Of Deposit of \$310,000 in 1976	\$ 376,007	\$ 879,274
Marketable Securities, at Cost or at Market at Date of Gift (At December 31, 1976 Market Quotations, \$3,674,049, per Schedule Annexed)	2,731,366	2,879,813
Accounts Receivable U.S. A.I.D.	62,500	85,900
Due from Restricted Funds ..	68,191	—
Pledges Receivable (Note 2)	675,000	875,000
Dividends Receivable and Interest Accrued	12,913	16,154
Advances, Deposits and Prepaid Expenses	58,472	55,360
Deferred Charges	10,365	15,198
 Total Assets	<u>\$3,994,814</u>	<u>\$4,806,699</u>

Restricted Funds

Cash	\$ 162,074	\$ 486,157
Accounts Receivable U.S. A.I.D.	60,093	—
The Ford Foundation ...	7,370	—
Advances and Deferred Charges	—	471
Pledges Receivable (Note 2)	1,322,000	782,928
 Total Assets	<u>\$1,551,537</u>	<u>\$1,269,556</u>

See Notes to Financial Statements.

LIABILITIES AND FUND BALANCES

	1976	1975
Liabilities		
Accounts Payable and Accrued Expenses	\$ 9,019	\$ 14,963
Federal Excise Tax	10,751	8,900
Deferred Income Deferred Support on Deposit	75,000	438,039
Pledges Receivable (Note 2)	675,000	875,000
 Total Liabilities ..	<u>769,770</u>	<u>1,336,902</u>
 Fund Balances		
Designated by the Board of Trustees for Investment (Note 3) ..	3,043,937	3,416,611
Undesignated, Available for General Activities ..	181,107	53,186
 Total Fund Balances ..	<u>3,225,044</u>	<u>3,469,797</u>
 Total Liabilities and Fund Balances	<u>\$3,994,814</u>	<u>4,806,699</u>

Liabilities		
Due to Unrestricted Fund \$	68,191	\$ —
Deferred Income Deferred Support on Deposit	44,268	344,400
Pledges Receivable (Note 2)	1,322,000	782,928
Accrued Expense	—	2,448
 Total Liabilities	<u>1,434,459</u>	<u>1,129,776</u>
 Fund Balances		
Program in Asia	117,078	135,828
Research and Training Network	—	3,952
 Total Fund Balances ..	<u>117,078</u>	<u>139,780</u>
 Total Liabilities and Fund Balances	<u>\$1,551,537</u>	<u>\$1,269,556</u>

STATEMENT OF SUPPORT, REVENUE AND EXPENSES

For the years ended December 31, 1976 and 1975

	1976			1975
	Unrestricted	Restricted	Total	Total
Support and Revenue				
Support				
International Development				
Research Center	\$ —	\$ 344,400	\$ 344,400	\$ 233,400
John D. Rockefeller 3rd	353,039	—	353,039	352,474
Rockefeller Brothers Fund	100,000	—	100,000	100,000
The Ford Foundation	200,000	105,870	305,870	320,500
U.S. Government—Agency for International Development	250,000	224,554	474,554	419,823
Total Support	<u>903,039</u>	<u>674,824</u>	<u>1,577,863</u>	<u>1,426,197</u>
Revenue				
Investment Income	239,395	75	239,470	251,634
Realized Gain (Loss) on Investments	58,326	—	58,326	(512,598)
World Bank—Reimbursement	20,668	—	20,668	—
Miscellaneous	9,682	—	9,682	7,906
Total Revenue (Loss)	<u>328,071</u>	<u>75</u>	<u>328,146</u>	<u>(253,058)</u>
Total Support and Revenue	<u>1,231,110</u>	<u>674,899</u>	<u>1,906,009</u>	<u>1,173,139</u>
Expenses				
Program Services				
Program in Asia	1,361,032	474,827	1,835,859	1,799,363
Research and Training Network	4,129	222,774	226,903	190,550
Total Program Services	<u>1,365,161</u>	<u>697,601</u>	<u>2,062,762</u>	<u>1,989,913</u>
Supporting Services				
Management and General	<u>110,702</u>	<u>—</u>	<u>110,702</u>	<u>105,957</u>
Total Expenses	<u>1,475,863</u>	<u>697,601</u>	<u>2,173,464</u>	<u>2,095,870</u>
(Deficiency) of Expenses over Support and Revenue	<u>\$ (244,753)</u>	<u>\$ (22,702)</u>	<u>\$ (267,455)</u>	<u>\$ (922,731)</u>

See Notes to Financial Statements.

STATEMENT OF CHANGES IN UNRESTRICTED FUND BALANCES

For the years ended December 31, 1976 and 1975

	1976			1975
	Designated for Investment	Undesignated Funds	Total	Total
Balance January 1,	\$3,416,611	\$ 53,186	\$3,469,797	\$4,861,187
Increase (Decrease) in Funds:				
Realized Gain (Loss) on Investments	58,326	—	58,326	(512,598)
Operating (Deficit)	—	(303,079)	(303,079)	(373,159)
Excess (Deficit) of Support and Revenue over Expense	58,326	(303,079)	(244,753)	(885,757)
Intra-Fund Transfers	(431,000)	431,000	—	—
Change for Current Year	(372,674)	127,921	(244,753)	(885,757)
Prior Period Adjustments	—	—	—	(505,633)
Total Increase (Decrease) in Funds	(372,674)	127,921	(244,753)	(1,391,390)
Balance—December 31,	\$3,043,937	\$181,107	\$3,225,044	\$3,469,797

STATEMENT OF CHANGES IN RESTRICTED FUND BALANCES

For the years ended December 31, 1976 and 1975

	1976			1975
	Program in Asia	Research and Training Network	Total	Total
Balance January 1,	\$ 135,828	\$ 3,952	\$ 139,780	\$ 111,598
Increase (Decrease) in Funds:				
Excess (Deficiency) of Support over Expenses—Current Year	(18,750)	(3,952)	(22,702)	(36,974)
Change for Current Year	(18,750)	(3,952)	(22,702)	(36,974)
Prior Period Adjustment	—	—	—	65,156
Total Increase (Decrease)	(18,750)	(3,952)	(22,702)	28,182
Balance—December 31,	\$ 117,078	\$ —	\$ 117,078	\$ 139,780

See Notes to Financial Statements.

STATEMENT OF FUNCTIONAL EXPENSES

For the years ended December 31, 1976 and 1975

	1976					1975
	Program Services			Supporting Services		
	Program in Asia	Research and Training Network	Total	Management and General	Total Expenses	Total Expenses
Salaries and Maintenance ..	\$ 684,973	\$ 65,716	\$ 750,689	\$ 17,144	\$ 767,833	\$ 706,003
Employee Health and Retirement Benefits	87,611	13,378	100,989	2,467	103,456	101,241
Payroll Taxes	23,111	3,463	26,574	2,308	28,882	19,434
Total Salaries and Related Expenses	795,695	82,557	878,252	21,919	900,171	826,678
Professional Fees and Contract Service Payments	4,538	5,000	9,538	12,298	21,836	28,164
Office Supplies and Expense	18,403	1,790	20,193	1,193	21,386	11,435
Telephone and Telegraph ..	14,110	2,142	16,252	1,428	17,680	23,867
Postage and Shipping	8,068	1,201	9,269	800	10,069	8,841
Occupancy	67,209	7,276	74,485	4,851	79,336	84,776
Transportation	31,645	3,359	35,004	2,239	37,243	18,323
Conferences, Seminars, Meetings	13,519	119,860	133,379	48,538	181,917	132,688
Educational Materials, Publications, and Printing	56,252	—	56,252	14,931	71,183	65,347
Investment Advisors and Fees	11,120	—	11,120	—	11,120	9,256
Leasehold Improvements and Equipment	22,653	1,606	24,259	1,071	25,330	44,441
Equipment Maintenance and Rental	8,903	1,202	10,105	802	10,907	11,192
Insurance	2,087	222	2,309	148	2,457	2,485
Awards and Grants	58,670	—	58,670	—	58,670	50,856
Graduate Fellowships (Note 5)	286,391	—	286,391	—	286,391	264,699
Graduate Assistantships	159,583	—	159,583	—	159,583	143,064
Visiting Professors	21,062	—	21,062	—	21,062	24,890
Research and Training	221,778	—	221,778	—	221,778	264,203
Short Term Specialists	17,924	—	17,924	—	17,924	38,790
Moving Expense	2,778	556	3,334	370	3,704	30,100
Federal Excise Tax	11,155	—	11,155	—	11,155	9,097
Other	2,316	132	2,448	114	2,562	2,678
Total	<u>\$1,835,859</u>	<u>\$ 226,903</u>	<u>\$2,062,762</u>	<u>\$ 110,702</u>	<u>\$2,173,464</u>	<u>\$2,095,870</u>

See Notes to Financial Statements.

SCHEDULE OF MARKETABLE SECURITIES

December 31, 1976

	Shares or Principal Amount	Book Amounts	Market Quotations
Designated by the Board of Trustees for Investment:			
Common Stocks:			
	Shares		
Allegheny Power Systems	9,000	\$ 158,445	\$ 200,250
American Cyanamid	5,000	98,371	139,375
Beneficial Corporation	6,000	171,618	162,750
Central and Southwest Corporation	8,000	131,797	135,000
Eastman Kodak Company	1,600	26,816	137,600
Exxon Corporation	3,000	113,408	160,875
General Motors Corp.	2,500	166,289	196,250
I.B.M. Corporation	1,600	58,394	446,600
Kellogg Company	5,000	80,254	138,125
Pennzoil Company	5,000	151,615	166,250
Pfizer Incorporated	5,000	216,974	146,875
Standard Oil Company of California	5,000	131,875	205,000
Standard Oil Company of Indiana	3,000	126,563	178,875
United Technologies Corporation	5,000	92,568	194,375
Total Common Stocks		1,724,987	2,608,200
Bonds:			
Pacific Gas & Electric Co., 1st and Ref. Mtge. Reg'd 9.85% Due June 1, 1982	\$250,000	250,000	276,563
Abbot Labs, Deb., Reg'd 9.2% Due October 15, 1999	150,000	150,563	164,157
Exxon Pipeline Co., Gtd. Deb., Reg'd 9% Due October 15, 2004	150,000	149,437	165,750
Total Bonds		550,000	606,470
Notes:			
United States Treasury Note 6.875% Due May 15, 1980	100,000	100,219	103,219
Short Term Investments:			
United States Treasury Bills Due February 10, 1977	60,000	59,517	59,517
United States Treasury Bills Due March 3, 1977	300,000	296,643	296,643
Total Short Term Investments		356,160	356,160
Total Marketable Securities		\$2,731,366	\$3,674,049

NOTES TO FINANCIAL STATEMENTS

1. Significant accounting policies of the Council are summarized below:
 - A. Securities are recorded at cost, if purchased, or market value at date of gift if received as a contribution.
 - B. Expenditures for furniture and equipment are not capitalized and depreciated, but are charged to expense as incurred. Such expenditures were approximately \$25,500 in 1976.
 - C. Pledges of support for future operations have been recognized in the accompanying balance sheet and classified as pledges receivable and deferred income. The recognition of pledges receivable in the balance sheet had no effect on the results of operations for 1976.
 - D. The Council has a non contributory retirement plan covering substantially all of its employees. Total expense for the year under this plan was approximately \$81,500. The Council's policy is to fund pension cost currently.
 - E. Support received during the year but designated for operations in a subsequent year has been recognized as deferred income in the accompanying balance sheet.
2. Pledges receivable are due for the respective funds in subsequent years as follows:

Year	Current Funds	
	Unrestricted	Restricted
1977	\$ 675,000	\$ 988,500
1978	—	333,500
	<u>\$ 675,000</u>	<u>\$1,322,000</u>

3. Funds designated by the Board of Trustees for investment (\$3,043,937) consists of:

Certificates of Deposit	\$ 310,000
Marketable securities	2,731,366
Cash	2,571

4. The Council has a lease agreement for office space at an annual rental of approximately \$30,000. expiring December 31, 1980.
5. Fellowships are granted by the Council for a period of 12 months, subject to possible, but not automatic, renewal. The Unrestricted fund had a commitment of \$281,100. at December 31, 1976 for unexpired portions of annual awards.

ACCOUNTANTS' OPINION

Mr. Donald H. McLean, Jr.
Chairman of the Board of Trustees,
The Agricultural Development Council, Inc.

We have examined the balance sheet of The Agricultural Development Council, Inc., including the schedule of marketable securities as of December 31, 1976 and 1975 and the related statements of support, revenue and expenses, functional expenses, and changes in Unrestricted and Restricted Fund balances for the years then ended. Our examination was made in accordance with generally accepted auditing standards, and accordingly included such tests of the accounting records and such other auditing procedures as we considered necessary in the circumstances.

In our opinion the above-mentioned financial statements present fairly the financial position of the Agricultural Development Council, Inc. at December 31, 1976 and 1975 and the results of its operations and changes in fund balances for the years then ended, in conformity with generally accepted accounting principles applied on a consistent basis.

Danahar and Scott

March 17, 1977

CURRENT COUNCIL FIELD STAFF

Name	Office	Mailing Address	Cable & Telephone
Dr. Vernon W. Rutlan President	A/D/C Asia Office RELC International House 30 Orange Grove Road Singapore 10	Tanglin P.O. Box 84 Singapore 10	AGRIDEVEL SINGAPORE Tel: 379266
Dr. William M. Bateson Associate Nepal	Agricultural Projects Services Center Ministry of Food, Agriculture and Irrigation Kathmandu	P.O. Box 1312 Kathmandu, Nepal	AGRIDEVEL KATHMANDU Tel 15506
Dr. Hans P. Binswanger Associate India	ICRISAT 1-11-256, Begumpet Hyderabad-500016, A.P., India		CRISAT, SECUNDERABAD
Veit Burger Specialist Nepal	Evaluation and Projects Analysis Division Ministry of Food, Agriculture and Irrigation Kathmandu		
Dr. Edward J. Clay Associate Bangladesh	Bangladesh Agricultural Research Council Dacca,	P.O. Box 98 Ramna, Dacca 2, Bangladesh	FORDFOUND DACC Tel 314295
Dr. William L. Collier Associate Indonesia	Department Social Ekonomi Institut Pertanian Bogor Jl. Otto Iskandardinata Bogor	P.O. Box 62 Bogor, Indonesia	AGRIDEVEL BOGOR
Dr. Robert E. Evenson Associate Philippines	Institute of Agricultural Development and Administration University of the Philippines College, Laguna	P.O. Box 365 College, Laguna Philippines	COLLEGE LAGUNA
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Dr. Max R. Langham Research Officer	A/D/C Asia Office RELC International House 30 Orange Grove Road Singapore 10	Tanglin P.O. Box 84 Singapore	AGRIDEVEL SINGAPORE Tel: 379266
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